

Title (en)  
IMAGE UNDERSTANDING SYSTEM

Publication  
**EP 0175928 A3 19880831 (EN)**

Application  
**EP 85110533 A 19850822**

Priority  
JP 17492484 A 19840824

Abstract (en)  
[origin: EP0175928A2] An image understanding system of this invention uses a grammar describing a document image, and represents the structure of an unknown input image by parsing a statement (the structure of the grammar) written in accordance with this grammar. In other words, the grammar describes an image as substructures and the relative relation between them, and when the substructures and their relative relation are identified in parsing, search is then made whether or not the substructures and their relative relation exist in an unknown input image. The structure of the unknown input image is represented on the basis of the result of this search.

IPC 1-7  
**G06F 15/70**; **G06K 9/00**

IPC 8 full level  
**G06K 9/20** (2006.01); **G06K 9/68** (2006.01); **G06T 1/00** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP)  
**G06T 7/00** (2013.01); **G06V 30/1985** (2022.01); **G06V 30/416** (2022.01)

Citation (search report)  
• [X] AICA CONFERENCE ON HYBRID COMPUTATION, Prague, 27th - 31st August 1973, Conf. 7, pages 280-284, The House of Technology CVTS, Prague, YU; W. GILOT et al.: "A grammar approach for the detection of patterns in stochastic signals and its implementation on a hybrid computer"  
• [A] JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY, vol. 17, no. 3, July 1970, pages 453-481, New York, US; A.C. SHAW: "Parsing of graph-representable pictures"  
• [A] PATTERN RECOGNITION, vol. 3, 1971, pages 363-383, Pergamon Press, New York, US; L. UHR: "Flexible linguistic pattern recognition"

Cited by  
EP0547804A1; EP0609517A3; US5630121A; EP0262462A3

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0175928 A2 19860402**; **EP 0175928 A3 19880831**; JP 2559356 B2 19961204; JP S6154569 A 19860318

DOCDB simple family (application)  
**EP 85110533 A 19850822**; JP 17492484 A 19840824